

Products and Company Overview

Distinguished by its total focus on low refractive index materials, MY Polymers is a leader in this field. We have been active in the field of Low Refractive Index Optical Coatings, Adhesives and Polymers since 2004. Our products span the whole range of Refractive Index from 1.30 to 1.50. Our wide selection of UV Cured products is complemented by Moisture Cured, Pressure Sensitive, Heat Cured, and Double Cured products.

The company develops, produces, and sells Primary Coatings for specialty optical fibers, Recoating materials, Liquid OCAs for Electronic Displays, Optical adhesives, Bio-photonic materials, and Anti-reflective coatings. Additional, emerging, applications include: Backside Anti-reflective coatings, Lighting Systems, Security Printing, and multiple applications in research institutes and universities around the world.

MY Polymers is ISO certified. We serve the global photonics, optical communications and electronic display industries, with customers in North America, Asia, and Europe. The company is located in Weizmann Science Park, Ness-Ziona in close proximity to the Weizmann Institute of Science.

Following is an overview of our major product categories.



The LM and MY Product Line: Recoating, Adhesives; Index = 1.30 to 1.50

MY Polymers offers the industry's widest selection of dedicated re-coating materials, which were optimized specifically for re-coating applications.

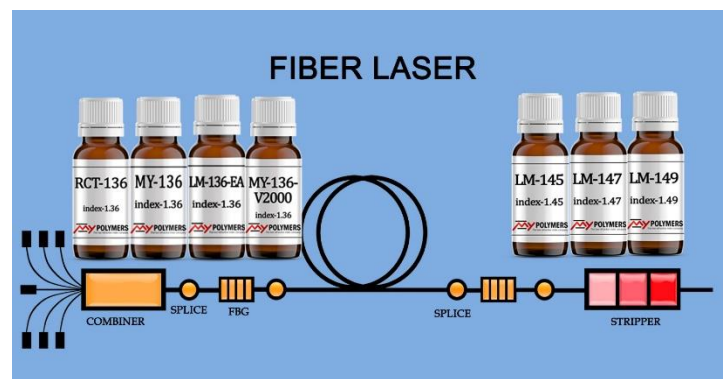
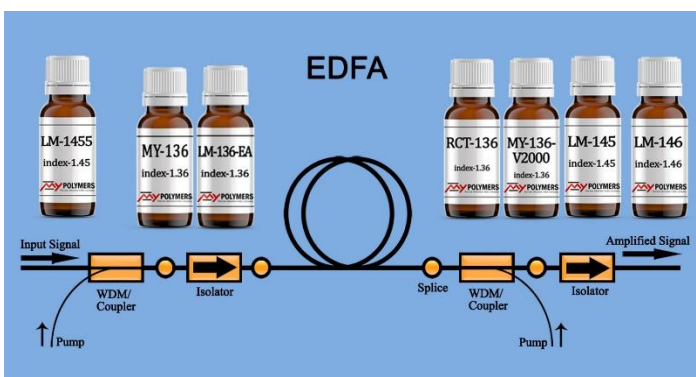
The new LM-136-EA recoating material was designed as a matching re-coating for stripped optical fibers that have a 1.36 index primary coating. LM-136-EA has remarkably high adhesion to the stripped core, and low modulus that reduces stress during thermal cycling. It complements our established line of re-coatings with an index of 1.36, which include MY-136-V2000 and MY-136.

MY-130, MY-133-V2000 and MY-133-EA improve the reliability of combiners.

LM-146, LM-147, LM-148 and similar products are new, Low Modulus versions of our legacy MY-146, MY-147 and MY-148. A typical use is recoating in Cascaded Cladding Power Strippers.

The table above is a partial table of some of our re-coating materials. Refer to our website for a full table.

Product	RI @ 950nm	Adhesion g/cm	Modulus MPa	Viscosity CPS
MY-130	1.303	low	<1	120
MY-133-V2000	1.329	9	5.2	2900
LM-136-EA	1.363	190	15	1700
LM-146	1.460	1900	35	1400
LM-147	1.470	1900	31	2150
LM-148	1.480	500	42	1300



The OF Product Line: Primary Coatings for Optical fibers; Index = 1.33 - 1.46

Our OF Optical Fiber coatings are used in optical fiber drawing towers. Our OF-136 (RI=1.36) is used by the majority of the leading manufacturers of Specialty Optical Fibers. It is complemented by the remarkable OF-133 (RI=1.33, NA=0.6), OF-138 (RI=1.38, high Modulus), OF-140-N, and many other products.

These and most of the OF products include our proprietary adhesion promoter. It provides improved adhesion to the silica core, especially under wet conditions, while enabling relatively long shelf life (compared to commercially available adhesion promoters). The table above is a partial table. Refer to our website for a full table.

Product	RI @ 950nm	Adhesion g/cm	Modulus MPa	Viscosity CPS
OF-133-V3	1.331	11	4	2400
OF-136	1.363	64	85	2200
OF-138	1.379	120	230	3300
OF-140-N	1.401	170	560	3200

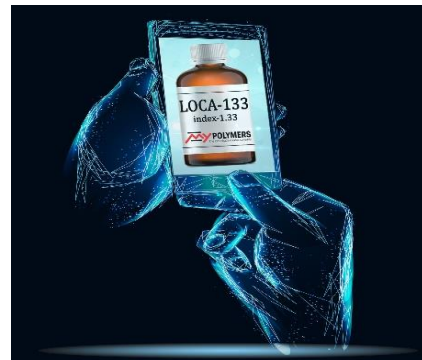
The LOCA Lamination Adhesives: Index = 1.33 to 1.35

Distinguished by its unique combination of low refractive index (1.33) AND high bond strength, LOCA-133 is intended to be used as an optical lamination adhesive in various applications in electronic displays.

Typical applications: Bonding of the back-light unit Light-guide to the reflector and to the diffuser film; or bonding an FTIR optical touch-screen to the LCD module.

Some of our MY products, such as LM-136-EA, also fit lamination application.

Product	RI @ 589nm	Peel Adhesion gr/cm	Lap Shear gr/cm	Viscosity CPS
LOCA-133	1.337	700	2800	2000
LOCA-133-S1	1.335	220	na	15000@90C
LOCA-135	1.357	440	2800	2000



Bio-Photonic Materials

Our BIO-133 and BIO-134 are non-fluorescent and have reduced cytotoxicity, compared to our other products. These materials enable high-resolution microscope imaging over 3D structures, such as microfluidic devices, microarrays or micropillars.

In some applications, customers prefer to use MY-133-V2000 or MY-134 that have a longer shelf life.

In other applications, when thin coatings are required (e.g. microscopy calibration slides, or SPR bio-sensors) customers prefer to use MY-133-MC (Index=1.33) for its simplicity of use as a coating.

Product	RI @ 589nm	RI @ 950nm	Elastic Modulus MPa	Viscosity CPS
BIO-133	1.334	1.329	5	2200
BIO-134	1.342	1.337	5.6	5500
MY-133-V2000	1.333	1.329	5.2	2900
MY-133-MC	1.330	1.325	<6B	400

